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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/401,632	09/22/1999	RANDALL L. SCHLESINGER	1999P82176US 4918	
759	90 02/23/2004		EXAMINER	
Siemens Corporation			WILLIAMS, CATHERINE SERKE	
Intellectual Prop	erty Department			
186 Wood Aven	ue South		ART UNIT	PAPER NUMBER
Iselin, NJ 08830			3763	
			date mailed: 02/23/2004 24	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>							
Office Action Summary		Application No.	Applicant(s)				
		09/401,632 SCHLESINGER ET AL.					
		Examiner	Art Unit				
		Catherine S. Williams	3763				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the (correspondence address				
THE - Exte after - If the - If NC - Failt - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a BANDONE, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 03 L	December 2003 .					
2a)⊠	This action is FINAL . 2b) ☐ Th	is action is non-final.					
3)							
Disposit	closed in accordance with the practice under ion of Claims	Ex parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.				
4) 🖂	Claim(s) <u>1-9,15-17,19-26,28-36,44 and 48</u> is/a	are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	Claim(s) <u>1-9 and 24-36</u> is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>15-17,19-22,44 and 48</u> is/are rejected.						
7) 🖂	Claim(s) 23 is/are objected to.						
	Claim(s) are subject to restriction and/or	r election requirement.					
	ion Papers						
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority (under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
* 5	Copies of the certified copies of the prior application from the International Bursee the attached detailed Office action for a list.	reau (PCT Rule 17.2(a)).	_				
14) 🗌 A	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(e) (to a provisional application).				
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachmen							
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
.S. Patent and T	rademark Office						

Application/Control Number: 09/401,632

Art Unit: 3763

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15-17,19, 22 and 44 are rejected under 35 U.S.C. 102(b) as being anticipated by Gruner (US Pat# 5,634,466).

Gruner discloses a medical diagnostic ultrasound catheter including a shaft (see fig 1), an ultrasound transducer (30), a lens (106), and a dielectric solid film (114). See figures 7a-7b. The film is positioned between the window and the ultrasound transducer. The film comprises a thin tape-like material of Mylar sheet. As shown in figure 7b, the film 114 is adjacent an emitting surface of the transducer and wraps around a portion of the circumference and at least one end of the transducer.

Claims 15-17,19-20 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Dunham (US Pat# 5,762,067).

Dunham discloses an ultrasound endoscopic probe that includes a shaft (see fig 1), an ultrasound transducer (130), a lens (160), and a dielectric solid film (164). See figure 10. Mylar membrane 164 is 0.1 mils thick. As shown in figure 10, the film 114 is adjacent an emitting surface of the transducer.

Application/Control Number: 09/401,632

Art Unit: 3763

Claim Rejections - 35 USC § 103

Page 3

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

Claims 15-17,19, 22 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Hossack et al (US Pat# 5,971,925).

Hossack discloses an ultrasound transducer (42), a lens (48), and a dielectric solid film

(18). See figure 5. The film is positioned between the lens and the ultrasound transducer. The

film comprises a thin tape-like material of Mylar sheet. As shown in figure 10, the film 18 is

adjacent an emitting surface of the transducer.

Hossack meets the claim limitations as described above but fails to include a shaft.

However, both Gruner and Dunham (above) teach medical device shafts containing ultrasound

transducers.

At the time of the invention, it would have been obvious place the entirety of the

transducer complex of Hossack into a shaft as taught by Dunham or Gruner. All three devices

are analogous in the art and therefore a combination is proper. Additionally, the motivation for

the incorporation would have been in order to enable the method and function of the device as

disclosed to image structures within the body (see summary: Hossack).

Allowable Subject Matter

Claims 1-9 and 24-36 are allowed

Art Unit: 3763

Claim 23 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 12/3/03 have been fully considered but they are not persuasive. Applicant argues that the prior art above does not disclose catheter shafts but instead disclose probes, and since they are described as probes, the structures do not anticipate the catheter shaft. However, the probes of the prior art (i) have the same structure as the catheter shaft both as claimed and disclosed and (ii) meet the general common meaning of a catheter shaft and are designed for the same function as the instant invention.

The prior art probe and the catheter shaft of the instant invention share the same structure; and therefore, the probe anticipates the catheter shaft. The elements of the prior art and the instant invention must be arranged as required by the claim, but this is not an ipsissimis verbis test, i.e., identity of terminology is not required. In re Bond, 910 F.2d 831, 15 USPQ2d 1566 (Fed. Cir. 1990). While the prior art do not use the same descriptive term as the instant invention to describe the shaft, the probes are described and depicted as elongate shafts (see figures of prior art) and are identical to the structure disclosed in applicant's specification and drawings. Therefore, the prior art shafts, even though referenced as probes, read on the limitation of a catheter shaft.

Any special meaning assigned to a term "must be sufficiently clear in the specification that any departure from common usage would be so understood by a person of experience in the

Application/Control Number: 09/401,632

Art Unit: 3763

field of the invention." Multiform Desiccants Inc. v. Medzam Ltd., 133 F.3d 1473, 1477, 45

USPQ2d 1429, 1432 (Fed. Cir. 1998). If an applicant does not define a term in the specification, that term will be given its "common meaning." Paulsen, at 30 F. 3d 1480, 31 USPQ2d at 1674.

Applicant's specification contains no definition for catheter shaft. Therefore, one skilled in the art must look to the common meaning to ascertain the meets and bounds of the claim terminology. According to <u>Dorland's Medical Dictionary</u>, 28th ed, a catheter, generally, is "a tubular, flexible surgical instrument that is inserted into a cavity of the body..." (Note: Dorland's continues to further define differences between catheter types (i.e. urinary, angioplasty, etc) but those specific definitions are not relevant to this application.) Clearly, the prior art figures show a tubular, flexible surgical instrument. Furthermore, both disclosures recite the function of the probe is for insertion into a patient's body. Hence, the probes of the prior art fall under the common meaning of and anticipate a catheter shaft.

The prior art probe has the same structure as the instant invention and conforms to the generally accepted meaning of the claimed invention. Clearly, the prior art probes anticipate the claimed catheter shaft.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

Art Unit: 3763

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Catherine S. Williams whose telephone number is 703-308-4846. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 703-308-3552. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2192.

Catherine Serke Williams &. February 19, 2004

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700